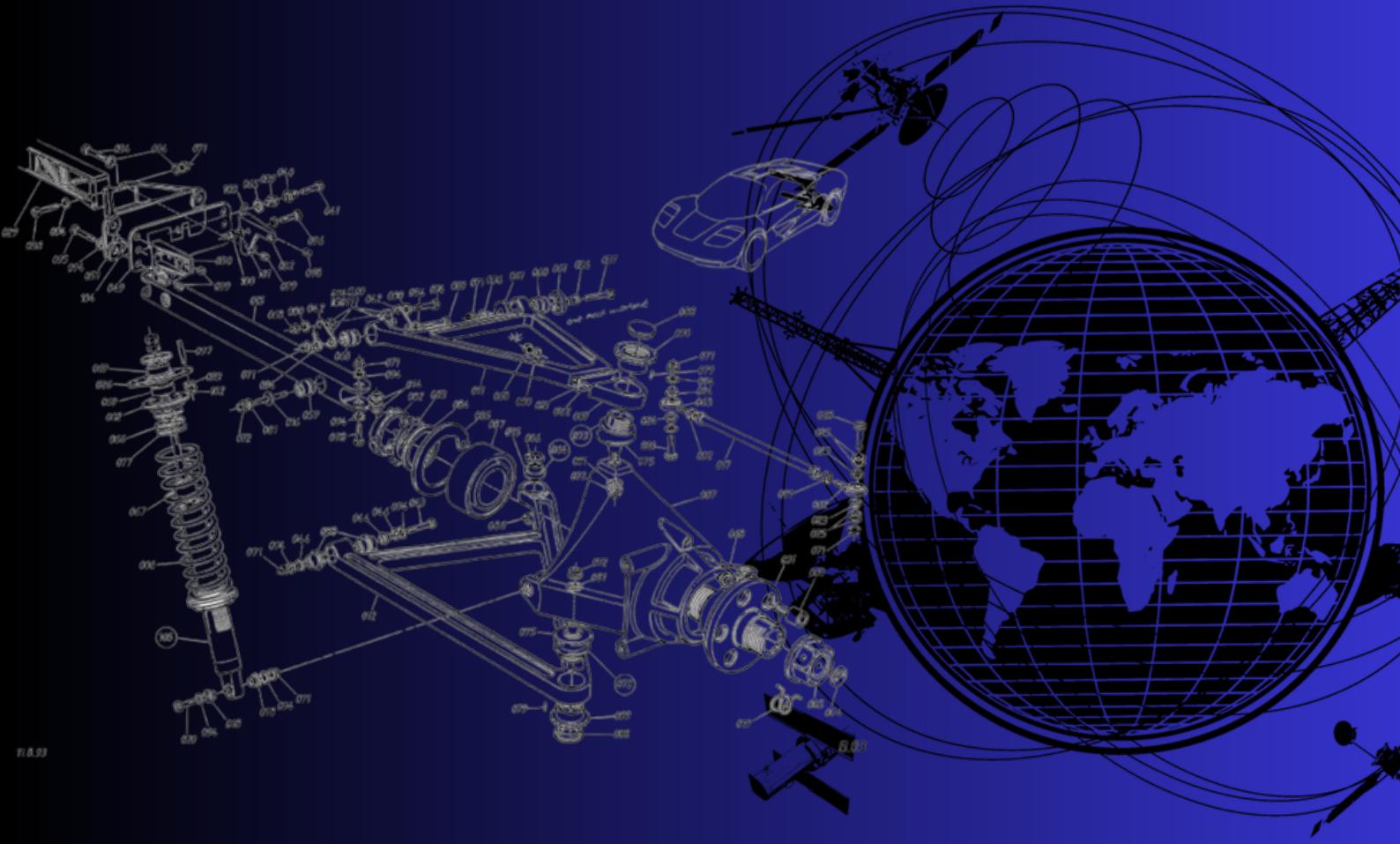


Technical Studies

**GIVEN AT TU DELFT, TU EINDHOVEN &
UNIVERSITEIT TWENTE**

AN OVERVIEW OF BACHELOR PROGRAMMES



Technical Studies

Aerospace Engineering

Lucht- en ruimtevaarttechniek

This program explores the science and engineering of flight and space exploration, covering aerodynamics, aircraft design, satellite systems, propulsion, and space missions. Beyond aviation and space, your skills can apply to other fields, such as wind energy, automotive design, and robotics. After your bachelor's, you can specialize in master's programs in advanced aerospace or related fields like mechanical engineering or applied physics.



Given in Delft (EN)



Given in Eindhoven (EN), Delft (NL),
Twente (EN)

Mechanical Engineering

Werktuigbouwkunde

When studying mechanical engineering, you learn how mechanical structures work. You could learn about the workings of a bicycle or an analytical calculator, but also about nanotechnology, heat transfer mechanisms, electric motors, cars, ships, bridges, and more. After the bachelor's, you can transfer to a lot of different masters, also masters from other studies, like civil engineering or aerospace engineering.

Applied Earth Sciences

Technische Aardwetenschappen

This program explores Earth's resources and the engineering challenges of sustainable extraction and management. You'll study topics like geology, resource engineering, mining, and environmental technologies. Bridging natural sciences and engineering, it has applications in energy, mining, climate change, and water management. After your bachelor's, you can pursue master's studies in geosciences, environmental engineering, or renewable energy systems.



Given in Delft (EN)

Applied Mathematics

Technische wiskunde

This program is about solving real-world problems using mathematical models and methods. You'll explore areas like statistics, optimization, computational science, and system analysis. Whether it's improving logistics, modeling climate change, or creating algorithms for AI, mathematics is foundational across industries. After the bachelor's, you can transition into a wide range of masters, including applied physics, data science, or even financial engineering.



Given in Delft (NL), Eindhoven (EN), Twente (EN)

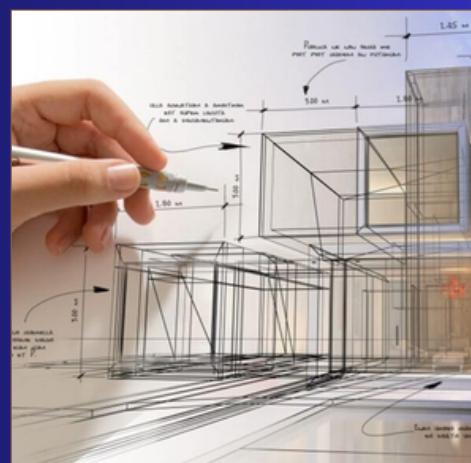


Given in Delft (NL), Eindhoven (EN), Twente (NL)

Applied Physics

Technische natuurkunde

Applied Physics is about using the principles of physics to solve real-world problems. Physics studies how the world works, you will learn about the behaviour of light, heat, electromagnetic waves, fluids and quantum physics. All of this is described in the language of mathematics. After the bachelor's, you can transition into a wide range of master's, from aerospace, mechanical or electrical engineering to mathematics, AI or certain master's in chemical or biomedical engineering.



Given in Delft (NL), Eindhoven (EN)

Architecture, Urbanism, and Building Sciences

Bouwkunde

This program teaches you to how design buildings, cities, and sustainable living environments. You'll study subjects like structural design, urban planning, sustainability, and architectural history. The skills are versatile and applicable to creating everything from iconic skyscrapers to smart cities. After the bachelor's, you can specialize in architecture, landscape design, or even urban technology in related master's programs.

Civil Engineering

Civiele techniek

This program is about designing and maintaining infrastructure that shapes our world. You'll learn about bridges, tunnels, water systems, and flood defences, with a focus on sustainability and safety. Civil engineers tackle some of the biggest challenges in transportation, urban development, and climate adaptation. After the bachelor's, you can pursue master's studies in areas like structural engineering, water management, or transportation systems.



**Given in Delft (NL),
Twente (EN)**



**Given in Delft (NL,EN),
Eindhoven (EN), Twente (EN)**

Computer Science and Engineering

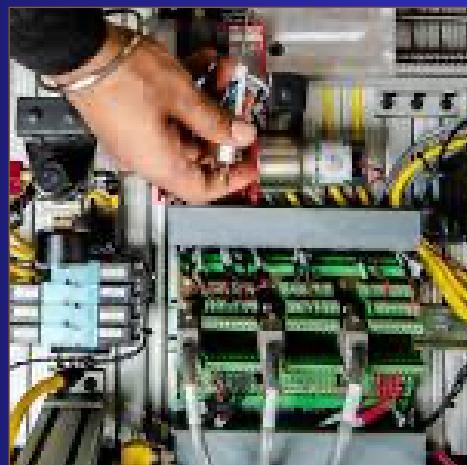
Computer science

This study focuses on developing software, algorithms, and systems for the digital age. Topics include programming, artificial intelligence, cybersecurity, and data analysis. Applications range from app development and robotics to big data and gaming. After the bachelor's, you can advance into master's programs in AI, computational science, or even interdisciplinary fields like bioinformatics.

Electrical Engineering

Electrical Engineering

Electrical Engineering is about designing and improving electrical systems and technologies. You'll learn about circuits, telecommunications, robotics, and renewable energy. From developing smarter grids to creating cutting-edge electronics, the applications are diverse. After the bachelor's, you can transition to master's programs in fields like microelectronics, energy systems, or even robotics.

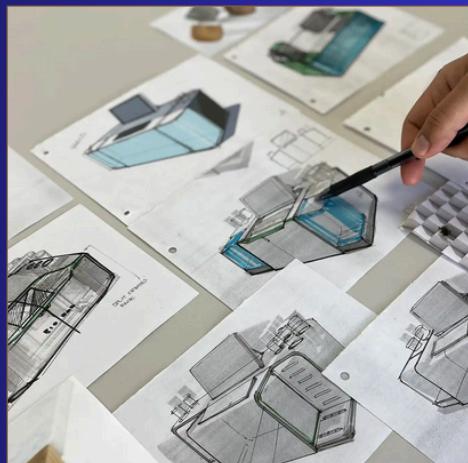


**Given in Delft (NL), Eindhoven
(EN), Twente (EN)**

Industrial Design

Industrieel ontwerpen

This program teaches you to design innovative products that combine functionality, aesthetics, and sustainability. You'll explore product design, ergonomics, manufacturing, and user experience. Whether it's designing household appliances, wearable tech, or sustainable packaging, the skills are versatile. After the bachelor's, you can specialize in topics like strategic design, product development, or circular design.



**Given in Delft (NL),
Eindhoven (EN), Twente (EN)**



Given in Delft (NL), Twente (NL)

Life Science and Technology

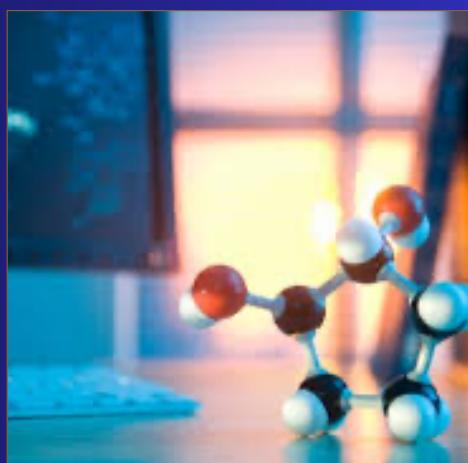
Levenswetenschappen en technologie

This program combines biology, chemistry, and technology to address challenges in health, food, and the environment. You'll study molecular biology, bioengineering, and biotechnology, applying these to areas like pharmaceuticals or sustainable energy. After the bachelor's, you can continue into master's programs in biotechnology, medical engineering, or environmental sciences.

Molecular Science and Technology

*Moleculaire Wetenschappen en
Technologie*

This program blends chemistry and engineering to develop solutions for energy, materials, and health challenges. Topics include chemical processes, materials science, and nanotechnology. Applications range from renewable energy to drug development. After the bachelor's, you can explore master's fields like chemical engineering, materials science, or nanobiology.



Given in Delft (NL)

Nanobiology

Nanobiologie

Nanobiology focuses on the intersection of biology, physics, and nanotechnology. You'll study how molecular processes work at the nanoscale, with applications in medicine, biotechnology, and materials science. After the bachelor's, you can pursue master's studies in nanotechnology, biomedical engineering, or computational biology.



Given in Delft (EN)



Given in Delft (NL) and Twente (EN)

Technology, Policy and Management/ Management, Society and Technology

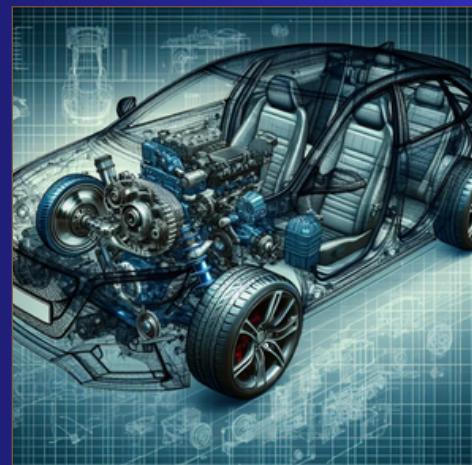
Technische Bestuurskunde

This multidisciplinary program combines engineering, policy-making, and management to address complex societal challenges. You'll learn to design and manage large systems, from energy grids to transportation networks, considering both technical and social aspects. After the bachelor's, you can transition into master's programs like energy management, infrastructure systems, or urban planning.

Automotive Technology

Automotive Technologie

During a bachelor's in automotive technology, you will study subjects related to mechanical, electrical, and software engineering. The knowledge you gain can help develop sustainable, intelligent vehicles, but keep in mind that during the bachelor's, many courses are still introductory and you will not develop cars immediately. Focused on innovation in areas like autonomous driving and electric mobility, it prepares graduates to address challenges in safety and efficiency. Hands-on projects ensure practical experience for careers or further studies.



Given in Eindhoven (EN)

Biomedical Engineering

Biomedische Technologie

The Bachelor's in Biomedical Engineering combines engineering and life sciences to address medical and healthcare challenges. Focused on developing innovative technologies like medical devices and diagnostics, it prepares graduates to improve patient care and treatment. Hands-on projects and industry connections provide practical experience for careers or advanced studies.



**Given in Eindhoven (NL, EN),
Twente (NL)**



Given in Eindhoven (EN), Twente (EN)

Chemical Engineering and Chemistry

Scheikundige Technologie en
Scheikunde

This program focuses on designing chemical processes, developing advanced materials, and creating sustainable solutions for energy and environmental challenges. By combining chemistry with engineering principles, students gain expertise in areas like catalysis, polymer science, and process technology. Practical projects and industry collaboration prepare graduates for careers or further research in this dynamic field.

Data Science

Datawetenschap

This program in Data Science focuses on analyzing and interpreting complex data to solve real-world problems. Students learn techniques in machine learning, data analytics, and artificial intelligence while addressing challenges in fields like healthcare, business, and sustainability. Practical projects and industry partnerships provide hands-on experience, preparing graduates for careers or further studies in this rapidly growing field.



Given in Eindhoven (EN)

Industrial Engineering & Management - for Twente)

This program in Industrial Engineering focuses on optimizing processes, systems, and organizations to improve efficiency and performance. Students learn to combine technical knowledge with business insights to address challenges in supply chain management, operations, and decision-making. Practical projects and industry collaboration equip graduates with the skills for impactful careers or advanced studies in this versatile field.



**Given in Eindhoven (EN)
and Twente (EN)**



**Given in Delft (NL), Eindhoven
(EN, NL), Twente (NL)**

Medical Sciences and Technology/ Health Sciences/Technical Medicine/Clinical Technology

*Medische Wetenschappen en
Technologie*

The Bachelor's in Medical Sciences and Technology integrates medicine, life sciences, and engineering to develop innovative healthcare solutions. Students learn to design medical devices, improve diagnostic tools, and contribute to personalized medicine. Through hands-on projects and collaborations with healthcare institutions, graduates gain the skills needed for careers or further studies in this rapidly advancing field.

Psychology and Technology

Psychologie en Technologie

The Bachelor's in Psychology and Technology combines psychological principles with technology to understand and improve human behaviour in a digital world. Students explore areas like human-computer interaction, cognitive systems, and behavioural analytics. Practical experience through projects and industry collaboration prepares graduates for careers or further studies at the intersection of psychology and technology.



Given in Eindhoven (NL, EN)

Sustainable Innovation

Technische Innovatiewetenschappen

The bachelor's in Sustainable Innovation focuses on developing innovative solutions to global sustainability challenges. Students learn to design sustainable products and processes across industries like energy, environment, and technology. By combining engineering, business, and societal perspectives, the program prepares graduates to drive sustainable change through hands-on projects and industry collaboration.



Given in Eindhoven (EN)



Given in Twente (EN)

Creative Technology

The Bachelor is given at the university of Twente. While it is similar to industrial engineering, the emphasis in this bachelor is more on free creativity. You will learn the technical skills to develop your creative solutions, and you will research how your creative solutions affect humans and/or design.

Advanced Technology

The bachelor's is designed to give students an overview of different kinds of technology. Consider this bachelor's as an introduction to topics in other bachelors, you will have courses in many different fields: electrical engineering, mechanical engineering, mathematics, physics, etc. After this bachelor's, your options for master's degrees are wide at Twente, however, not necessarily to other universities in The Netherlands, due to the lack of some of the courses.



Given in Twente (EN)

Student Life

Delft as a city is quite small, however the university is very big, so there are relatively a lot of students. It is also in between Rotterdam and The Hague, so there is also a lot to do in big cities surrounding it. The university is known for its strong traditional student culture. The opportunities for student night life exist mainly as part of student or sports associations. Many of the bachelor studies are given in Dutch, and student associations are very popular, hence Delft can be challenging for international students. There are also many startups originating from the university.

Eindhoven as a city is quite big. While having quite a number of student associations, its study associations are very popular. Almost all studies are given in English and the openness of study and sports associations to internationals makes the university internationally friendly. A unique aspect of the studies at TU/e is the large percentage of courses you choose yourself, with the right choice you can follow almost any master's program. The Eindhoven Region is one of the smartest places on the planet, called Brainport, and the university is very well connected with industry, in particular high-tech companies in the area.

University of Twente is known for its standalone campus, designed as a small village near Enschede. It emphasizes creativity and a human-centered approach to technology, with spaces that encourage collaboration. Enschede has a high student-to-population ratio, creating a strong student presence. While traditional student associations are less prominent, they are available. The city offers various social options, such as bars, cafés, and restaurants. Though the region has fewer ties to large industries, the focus on connecting technology with society remains central to the university.



Delft



Eindhoven



Twente

QS World University Ranking (2025)

**1st in The Netherlands,
49th in the world.**

**4th in The Netherlands,
136th in the World**

**11th in The Netherlands,
and 234th in the World**

Average student housing price

€469

€502

€361

Number of students at the university

28,000

13,000

12,000

USEFUL RESOURCES...

STUDIEKEUZE123

[Studiekeuze123.nl](http://studiekeuze123.nl)

This website is great for comparing different studies in the Netherlands with each other. It offers information such as the dates of open campus days, as well as ratings from students for each program.



QS World University Rankings

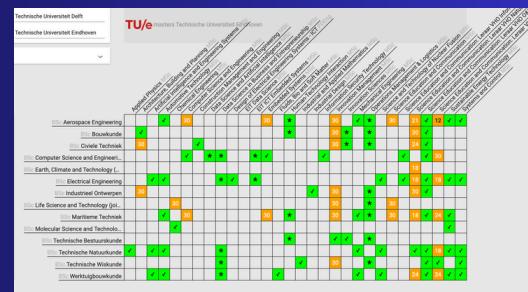
topuniversities.com

Great tool to see how well-ranked different universities and faculties are on a worldwide scale. This can be used as an indication of how reputable each university is in different fields.

DOORSTROOM MATRIX

Doorstroommatrix.nl

This tool allows you to see which master you can do with which bachelor's. It also checks between other universities. Keep in mind, that some information is not updated so double-check on the universities' websites as well.



GOOD LUCK!

This flyer serves as an orientation tool.

Found something interesting? Take the next step! Research study programs, compare universities,
and check admission requirements.

Attend open days, workshops, and student-for-a-day events to get a feel for different study paths. In-
person experiences can help you decide what truly excites you!